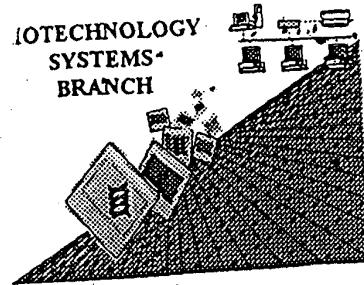


0590
0920

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/865548

Source: OIP E

Date Processed by STIC: 09/18/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/865548

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE.

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/865,548

DATE: 09/18/2001

TIME: 15:43:18

Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\09182001\I865548.raw

5 <110> APPLICANT: Barnea, Eilon
7 Beer, Ilan
9 Ziv, Tamar
11 Admon, Arie
15 <120> TITLE OF INVENTION: METHOD OF IDENTIFYING PEPTIDES CAPABLE OF BINDING TO MHC MOLECULES,
16 PEPTIDES IDENTIFIED THEREBY AND THEIR USES
20 <130> FILE REFERENCE: 01/22080
C--> 24 <140> CURRENT APPLICATION NUMBER: US/09/865,548
C--> 24 <141> CURRENT FILING DATE: 2001-09-04
24 <150> PRIOR APPLICATION NUMBER: US 60/290,958
26 <151> PRIOR FILING DATE: 2001-05-16
30 <160> NUMBER OF SEQ ID NOS: 204
34 <170> SOFTWARE: PatentIn version 3.0
38 <210> SEQ ID NO: 1
40 <211> LENGTH: 9
42 <212> TYPE: PRT
C--> 44 <213> ORGANISM: Artificial
48 <220> FEATURE:
50 <223> OTHER INFORMATION: synthetic peptide
52 <400> SEQUENCE: 1
54 Leu Leu Asp Val Pro Thr Ala Ala Val
55 1 5
57 <210> SEQ ID NO: 2
59 <211> LENGTH: 10
61 <212> TYPE: PRT
C--> 63 <213> ORGANISM: Artificial
67 <220> FEATURE:
69 <223> OTHER INFORMATION: synthetic peptide
71 <400> SEQUENCE: 2
73 Leu Leu Asp Val Pro Thr Ala Ala Val
74 1 5 10
76 <210> SEQ ID NO: 3
78 <211> LENGTH: 12
80 <212> TYPE: PRT
C--> 82 <213> ORGANISM: Artificial
86 <220> FEATURE:
88 <223> OTHER INFORMATION: synthetic peptide
90 <400> SEQUENCE: 3
92 Leu Leu Leu Asp Val Pro Thr Ala Ala Val Gln Ala
93 1 5 10
95 <210> SEQ ID NO: 4
97 <211> LENGTH: 8
99 <212> TYPE: PRT
C--> 101 <213> ORGANISM: Artificial
105 <220> FEATURE:
107 <223> OTHER INFORMATION: synthetic peptide
109 <400> SEQUENCE: 4

Does Not Comply
Corrected Diskette Needed

Errored:
Synthetic peptide is an
insufficient 223 response.
FYI: "Artificial Sequence"
is the preferred terminology
for field 213.

The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/865,548

DATE: 09/18/2001

TIME: 15:43:18

Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\09182001\I865548.raw

```

111 Gly Leu Leu Gly Thr Leu Val Gln
112 1 5
114 <210> SEQ ID NO: 5
116 <211> LENGTH: 9
118 <212> TYPE: PRT
C--> 120 <213> ORGANISM: Artificial
124 <220> FEATURE:
126 <223> OTHER INFORMATION: synthetic peptide
128 <400> SEQUENCE: 5
130 Gly Leu Leu Gly Thr Leu Val Gln Leu
131 1 5
133 <210> SEQ ID NO: 6
135 <211> LENGTH: 9
137 <212> TYPE: PRT
C--> 139 <213> ORGANISM: Artificial
143 <220> FEATURE:
145 <223> OTHER INFORMATION: synthetic peptide
147 <400> SEQUENCE: 6
149 Ala Leu Phe Gly Ala Leu Phe Leu Ala
150 1 5
152 <210> SEQ ID NO: 7
154 <211> LENGTH: 10
156 <212> TYPE: PRT
C--> 158 <213> ORGANISM: Artificial
162 <220> FEATURE:
164 <223> OTHER INFORMATION: synthetic peptide
166 <400> SEQUENCE: 7
168 Ser Leu Leu Gly Gly Asp Val Val Ser Val
169 1 5 10
171 <210> SEQ ID NO: 8
173 <211> LENGTH: 9
175 <212> TYPE: PRT
C--> 177 <213> ORGANISM: Artificial
181 <220> FEATURE:
183 <223> OTHER INFORMATION: synthetic peptide
185 <400> SEQUENCE: 8
187 Asn Leu Thr Ile Ser Asp Val Ser Val
188 1 5
190 <210> SEQ ID NO: 9
192 <211> LENGTH: 9
194 <212> TYPE: PRT
C--> 196 <213> ORGANISM: Artificial
200 <220> FEATURE:
202 <223> OTHER INFORMATION: synthetic peptide
204 <400> SEQUENCE: 9
206 Ser Leu Trp Gly Gln Pro Ala Glu Ala
207 1 5
209 <210> SEQ ID NO: 10
211 <211> LENGTH: 9

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/865,548

DATE: 09/18/2001

TIME: 15:43:18

Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\09182001\I865548.raw

213 <212> TYPE: PRT
C--> 215 <213> ORGANISM: Artificial
219 <220> FEATURE:
221 <223> OTHER INFORMATION: synthetic peptide
223 <400> SEQUENCE: 10
225 Ser Leu Ile Gly His Leu Gln Thr Leu
226 1 5
228 <210> SEQ ID NO: 11
230 <211> LENGTH: 9
232 <212> TYPE: PRT
C--> 234 <213> ORGANISM: Artificial
238 <220> FEATURE:
240 <223> OTHER INFORMATION: synthetic peptide
242 <400> SEQUENCE: 11
244 Ser Leu Ser Glu Lys Thr Val Leu Leu
245 1 5
247 <210> SEQ ID NO: 12
249 <211> LENGTH: 9
251 <212> TYPE: PRT
C--> 253 <213> ORGANISM: Artificial
257 <220> FEATURE:
259 <223> OTHER INFORMATION: synthetic peptide
261 <400> SEQUENCE: 12
263 Ser Leu Phe Pro Gly Lys Leu Glu Val
264 1 5
266 <210> SEQ ID NO: 13
268 <211> LENGTH: 9
270 <212> TYPE: PRT
C--> 272 <213> ORGANISM: Artificial
276 <220> FEATURE:
278 <223> OTHER INFORMATION: synthetic peptide
280 <400> SEQUENCE: 13
282 Gly Leu Ile Glu Lys Asn Ile Glu Leu
283 1 5
285 <210> SEQ ID NO: 14
287 <211> LENGTH: 9
289 <212> TYPE: PRT
C--> 291 <213> ORGANISM: Artificial
295 <220> FEATURE:
297 <223> OTHER INFORMATION: synthetic peptide
299 <400> SEQUENCE: 14
301 Gly Leu Tyr Pro Gly Leu Ile Trp Leu
302 1 5
304 <210> SEQ ID NO: 15
306 <211> LENGTH: 9
308 <212> TYPE: PRT
C--> 310 <213> ORGANISM: Artificial
314 <220> FEATURE:
316 <223> OTHER INFORMATION: synthetic peptide

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/865,548

DATE: 09/18/2001

TIME: 15:43:18

Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\09182001\I865548.raw

318 <400> SEQUENCE: 15
320 Tyr Leu Leu Pro Ala Ile Val His Ile
321 1 5
323 <210> SEQ ID NO: 16
325 <211> LENGTH: 9
327 <212> TYPE: PRT
C--> 329 <213> ORGANISM: Artificial
333 <220> FEATURE:
335 <223> OTHER INFORMATION: synthetic peptide
337 <400> SEQUENCE: 16
339 Ala Leu Ser Asp His His Ile Tyr Leu
340 1 5
342 <210> SEQ ID NO: 17
344 <211> LENGTH: 9
346 <212> TYPE: PRT
C--> 348 <213> ORGANISM: Artificial
352 <220> FEATURE:
354 <223> OTHER INFORMATION: synthetic peptide
356 <400> SEQUENCE: 17
358 Ile Leu Asp Gln Lys Ile Asn Glu Val
359 1 5
361 <210> SEQ ID NO: 18
363 <211> LENGTH: 9
365 <212> TYPE: PRT
C--> 367 <213> ORGANISM: Artificial
371 <220> FEATURE:
373 <223> OTHER INFORMATION: synthetic peptide - *Errored*
375 <400> SEQUENCE: 18
377 Ile Leu Asp Lys Lys Val Glu Lys Val
378 1 5
380 <210> SEQ ID NO: 19
382 <211> LENGTH: 11
384 <212> TYPE: PRT
C--> 386 <213> ORGANISM: Artificial
390 <220> FEATURE:
392 <223> OTHER INFORMATION: synthetic peptide - *Errored*
394 <400> SEQUENCE: 19
396 Ser Leu Leu Pro Pro Thr Ala Leu Val Gly Leu
397 1 5 10
399 <210> SEQ ID NO: 20
401 <211> LENGTH: 10
403 <212> TYPE: PRT
C--> 405 <213> ORGANISM: Artificial
409 <220> FEATURE:
411 <223> OTHER INFORMATION: synthetic peptide
413 <400> SEQUENCE: 20
415 Gly Val Tyr Asp Gly Glu Glu His Ser Val
416 1 5 10
418 <210> SEQ ID NO: 21

RAW SEQUENCE LISTING

DATE: 09/18/2001

PATENT APPLICATION: US/09/865,548

TIME: 15:43:18

Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\09182001\I865548.raw

```

420 <211> LENGTH: 11
422 <212> TYPE: PRT
C--> 424 <213> ORGANISM: Artificial
428 <220> FEATURE:
430 <223> OTHER INFORMATION: synthetic peptide
432 <400> SEQUENCE: 21
434 Ser Leu Leu Pro Pro Asp Ala Leu Val Gly Leu
435 1          5          10
437 <210> SEQ ID NO: 22
439 <211> LENGTH: 9
441 <212> TYPE: PRT
C--> 443 <213> ORGANISM: Artificial
447 <220> FEATURE:
449 <223> OTHER INFORMATION: synthetic peptide
451 <400> SEQUENCE: 22
453 Thr Leu Trp Val Asp Pro Tyr Glu Val
454 1          5
456 <210> SEQ ID NO: 23
458 <211> LENGTH: 10
460 <212> TYPE: PRT
C--> 462 <213> ORGANISM: Artificial
466 <220> FEATURE:
468 <223> OTHER INFORMATION: synthetic peptide
470 <400> SEQUENCE: 23
472 Phe Leu Phe Asp Gly Ser Pro Thr Tyr Val
473 1          5          10
475 <210> SEQ ID NO: 24
477 <211> LENGTH: 11
479 <212> TYPE: PRT
C--> 481 <213> ORGANISM: Artificial
485 <220> FEATURE:
487 <223> OTHER INFORMATION: synthetic peptide
489 <400> SEQUENCE: 24
491 Phe Leu Phe Asp Gly Ser Pro Thr Tyr Val Leu
492 1          5          10
494 <210> SEQ ID NO: 25
496 <211> LENGTH: 12
498 <212> TYPE: PRT
C--> 500 <213> ORGANISM: Artificial
504 <220> FEATURE:
506 <223> OTHER INFORMATION: synthetic peptide
508 <400> SEQUENCE: 25
510 Ala Leu Trp Asp Ile Glu Thr Gly Gln Gln Thr Val
511 1          5          10
513 <210> SEQ ID NO: 26
515 <211> LENGTH: 9
517 <212> TYPE: PRT
C--> 519 <213> ORGANISM: Artificial
523 <220> FEATURE:

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/865,548

DATE: 09/18/2001

TIME: 15:43:19

Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\09182001\I865548.raw

L:24 M:270 C: Current Application Number differs, Replaced Current Application No
L:24 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:44 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1
L:63 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2
L:82 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
L:101 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:120 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:139 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:158 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7
L:177 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
L:196 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:215 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:234 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:253 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
L:272 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13
L:291 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14
L:310 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15
L:329 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16
L:348 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:17
L:367 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18
L:386 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:19
L:405 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:20
L:424 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:21
L:443 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:22
L:462 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:23
L:481 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:24
L:500 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:25
L:519 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:26
L:538 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:27
L:557 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:28
L:576 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:29
L:595 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:30
L:614 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:31
L:633 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:32
L:652 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:33
L:671 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:34
L:690 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:35
L:709 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:36
L:728 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:37
L:747 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:38
L:766 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:39
L:785 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:40
L:803 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:41
L:821 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:42
L:840 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:43
L:859 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:44
L:878 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:45
L:897 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:46

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/865,548

DATE: 09/18/2001

TIME: 15:43:19

Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\09182001\I865548.raw

L:916 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:47
L:935 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:48
L:954 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:49
L:973 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:50